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**IN THE CLAIMS:****Listing of Claims:**

- 1 **Claim 1.** (currently amended) An emitter locator system, comprising:
- 2 a mobile DF set, said set comprising a receiver for receiving incident signal
- 3 transmissions;
- 4 a second DF set in communication with said mobile DF set, said second set
- 5 comprising a receiver for receiving incidental signal transmissions;
- 6 a line of bearing (LOB) generating system in operative communication with said
- 7 receivers and configured to generate lines of bearing from each said DF set responsive to
- 8 said received signal transmissions;
- 9 an LOB error generating system in operative communication with said line of
- 10 bearing generating system and configured to generate error bounds related to said lines of
- 11 bearing, said line of bearing generating system and said LOB error generating system
- 12 executed by a computing device, said computing device operatively generating a cross-
- 13 over point, said cross-over point defined as the intersection of a pair of sequential real-
- 14 time lines of bearing from each said mobile DF set, each said line of bearing
- 15 corresponding to a wireless transmission from said transmitter received by said mobile
- 16 DF set and said computing device then estimates a future position of said transmitter in
- 17 reference to said cross-over point;
- 18 a probability overlay generating system in operative communication with said
- 19 LOB error generating system and configured to generate an overlay probability map
- 20 responsive to said error bounds; and
- 21 display means for visually displaying said lines of bearing, said error bounds and
- 22 said overlay map.
- 1 **Claim 2.** (previously amended) The system of Claim 1, wherein: